

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Munehisa FUJITA et al

**Application No.:** 08/474,715

**Group Art Unit:** 1113

**Filed:** June 7, 1995

**Examiner:** L. Wright

**For:** DIRECT POSITIVE PHOTOGRAPHIC SILVER HALIDE EMULSION AND COLOR PHOTOGRAPHIC LIGHT-SENSITIVE MATERIAL COMPRISING SAME

**DECLARATION UNDER C.F.R. § 1.132**

Assistant Commissioner of Patents  
Washington, DC 20231

Sir:

I, Munehisa FUJITA, hereby declare and state:

THAT I am a citizen of Japan;

THAT I have received a Masters degree in Science, Course of Chemistry in March, 1977 from The Tokyo University, Faculty of Science;

THAT I have been employed by Fuji Photo Film Co., Ltd. since April, 1977, where I have been engaged in research and development on the reversal of color photographic materials at the Ashigara Research Laboratories; and

THAT the following experiment was performed by me or under my direct supervision.

**EXPERIMENT**

(1) Preparation of Seed Crystals

Seed Crystal No. I1 was prepared in the same manner as Emulsion A as disclosed in Evans, using the same prescription as

DECLARATION UNDER 37 C.F.R. § 1.132  
U.S. APPLICATION NO. 08/474,715

for Emulsion A, but without subjecting the crystal to chemical sensitization.

Seed Crystal No. I2 was prepared in the same manner as Emulsion A as disclosed in Evans, using a pure AgBr composition but without subjecting the crystal to chemical sensitization.

(2) Preparation of Emulsions

Emulsion No. J1 used in Evans and Emulsion No. J2 having the following formulation were prepared using the above Seed Crystal Nos. I1 and I2 in the manner shown in the following Table 1'.

TABLE 1' (comparison with Table 1)

| Emulsion No. | a/ $\mu$ m | b/ $\mu$ m | pBr  | Compound No. (or Name)          | Added Amount* | Seed Crystal |
|--------------|------------|------------|------|---------------------------------|---------------|--------------|
| J1 (Comp.)   | 1.00       | 0.085      | 2.40 | Sodium thiosulfate pentahydrate | 4.4mg/Ag-mol  | I1           |
| J2 (Inven.)  | 1.00       | 0.085      | 2.40 | 1-16                            | 63.8mg/Ag-mol | I2           |

\* = Proportion based on an amount of Ag at the after-ripening step of the core of grain.

(3) Preparation of Samples

The following Sample Nos. 207 and 208 were prepared, using the above emulsions in the manner shown in the following Table 3'.

DECLARATION UNDER 37 C.F.R. § 1.132  
U.S. APPLICATION NO. 08/474,715

TABLE 3' (comparison with Table 3)

| Sample No.              | 8th Layer | 15th Layer | 22nd Layer |
|-------------------------|-----------|------------|------------|
| 207 (Comparison)        | J1        | J1         | J1         |
| 208 (Present Invention) | J2        | J2         | J2         |

(4) The test results of the Sample Nos. 207 and 208 are shown in Table 4'.

TABLE 4' (comparison with Table 4)

Maximum Density, Minimum Density,  
Middle Sensitivity and Negative Sensitivity

| Sample No.  | Maximum Density |      |      | Minimum Density |      |      | Middle Sensitivity |     |     | Negative Sensitivity |     |     |
|-------------|-----------------|------|------|-----------------|------|------|--------------------|-----|-----|----------------------|-----|-----|
|             | Y               | M    | C    | Y               | M    | C    | Y                  | M   | C   | Y                    | M   | C   |
| 207 (Comp.) | 1.90            | 2.06 | 2.15 | 0.33            | 0.34 | 0.48 | 86                 | 84  | 82  | 118                  | 121 | 126 |
| 208 (Inv.)  | 2.13            | 2.33 | 2.45 | 0.17            | 0.16 | 0.24 | 112                | 132 | 155 | 78                   | 76  | 80  |

(5) As is clear from the results shown above, the sample prepared by using the emulsion which is disclosed in Evans (Emulsion A) exhibited a reduced maximum density, an increased

DECLARATION UNDER 37 C.F.R. § 1.132  
U.S. APPLICATION NO. 08/474,715

minimum density, a reduced middle sensitivity, and an increased high negative sensitivity as compared with those of Comparative Sample No. 101 which described in the present specification. On the other hand, the samples of the present invention provided remarkable effects -- they exhibited an increased middle sensitivity and a reduced high negative sensitivity, without reducing maximum density and without increasing minimum density.

\* \* \*

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

Date: \_\_\_\_\_

\_\_\_\_\_  
Munhisa FUJITA